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APPLICATION NO.	FILI	NG DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO	
10/652,899	08/30/2003		Paul W. Winterrowd	200300504-1	3525	
22879	7590	10/12/2006		EXAMINER		
		D COMPANY	MALZAHN, DAVID H			
	P O BOX 272400, 3404 E. HARMONY ROAD INTELLECTUAL PROPERTY ADMINISTRATION				PAPER NUMBER	
FORT COLL	INS, CO	80527-2400	2193			

DATE MAILED: 10/12/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)	
	10/652,899	WINTERROWD, PAUL W.	
Office Action Summary	Examiner	Art Unit	
	David H. Malzahn	2193	
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with the	correspondence address	
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA  - Extensions of time may be available under the provisions of 37 CFR 1.11 after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period of Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATIO 36(a). In no event, however, may a reply be ti will apply and will expire SIX (6) MONTHS from , cause the application to become ABANDONI	N. mely filed the mailing date of this communication. ED (35 U.S.C. § 133).	
Status			
1) Responsive to communication(s) filed on  2a) This action is <b>FINAL</b> . 2b) This  3) Since this application is in condition for allowar closed in accordance with the practice under E	action is non-final.		
Disposition of Claims			
<ul> <li>4)  Claim(s) 1-43 is/are pending in the application.</li> <li>4a) Of the above claim(s) is/are withdray</li> <li>5)  Claim(s) 22 and 33 is/are allowed.</li> <li>6)  Claim(s) 1-14,16-21,23-32 and 34-43 is/are rej</li> <li>7)  Claim(s) 15 is/are objected to.</li> <li>8)  Claim(s) are subject to restriction and/or</li> </ul>	wn from consideration.		
Application Papers			
9) The specification is objected to by the Examine 10) The drawing(s) filed on 30 August 2003 is/are:  Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct  11) The oath or declaration is objected to by the Ex	a) accepted or b) ⊠ objected drawing(s) be held in abeyance. Se ion is required if the drawing(s) is ob	e 37 CFR 1.85(a). njected to. See 37 CFR 1.121(d).	
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of:  1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the prior application from the International Bureau * See the attached detailed Office action for a list	s have been received. s have been received in Applicat rity documents have been receiv u (PCT Rule 17.2(a)).	ion No ed in this National Stage	
Attachment(s)  Notice of References Cited (PTO-892)  Notice of Draftsperson's Patent Drawing Review (PTO-948)  Information Disclosure Statement(s) (PTO/SB/08)  Paper No(s)/Mail Date 8/30/03.	4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal F 6) Other:	ate	

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#### **DETAILED ACTION**

## Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.
- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 2. Claims 1-14, 16-21, 23-25, 27-32 and 34-43 are rejected under 35 U.S.C. 102(a) as being anticipated by applicant's admitted Prior Art, namely Fig.6.

Fig. 6 illustrates a multiplier circuit wherein a plurality of partial products (602a-602p) are added by a plurality of adders that include a plurality of 4 – 2 compressors (604a –606d) having the same width.

3. Claims 1-14, 16-21, 23-25, 27-32 and 34-43 are rejected under 35 U.S.C. 102(b) as being anticipated by Hale.

Hale's Fig. 1 illustrates a multiplier circuit wherein a plurality of partial products (16) are added by a plurality of adders that include a plurality of 4 - 2 compressors (compressors14a – 14f and 24) having the same width.

4. Claims 1-14, 16-21, 23-25, 27-32 and 34-43 are rejected under 35 U.S.C. 102(e) as being anticipated by Wang et al (Wang).

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Wang's Fig. 6 illustrates a multiplier circuit wherein a plurality of partial products (the outputs of the Booth Group Recoder) are added by a plurality of adders that include a plurality of 4 – 2 compressors (compressors 164-180) having the same width.

## Claim Rejections - 35 USC § 112

5. Claims 6, 17, 23-32 and 39 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claims 6, 17, 28 and 39 are mis-descriptive because the width of each compressor is not equal to the width of the input. Lines 2-3 of claim 23 are grammatically incorrect.

#### Allowable Subject Matter

- 6. Claims 22 and 33 are allowed.
- 7. Claim 15 is objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

### Specification

8. The lengthy specification has not been checked to the extent necessary to determine the presence of all possible minor errors. Applicant's cooperation is requested in correcting any errors of which applicant may become aware in the specification.

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## **Drawings**

9. It appears that Figs. 5A and 6 should be labeled "Prior Art".

#### Conclusion

10. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

11. Any inquiry concerning this communication or earlier communications from the examiner should be directed to David H. Malzahn whose telephone number is (571) 272-3727. The examiner can normally be reached on M-Th from 7:30 to 6:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kakali Chaki, can be reached on 571-272-3719. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

David H. Malzahn Primary Examiner Art Unit 2193